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10/691,395	10/21/2003	Hisashi Saiga	55051 DIV (71117)	2475

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EXAMINER	
SHIH, HAOSHIAN	

ART UNIT	PAPER NUMBER
2173	

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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/691,395	SAIGA ET AL.	
	Examiner	Art Unit	
	HAOSHIAN SHIH	2173	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *08 October 2008*.

2a)☒ This action is **FINAL**. 2b)☐ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *11-13,15,52-60 and 62* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *11-13,15,52-60 and 62* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on *23 October 2003* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☒ All b)☐ Some * c)☐ None of:

1.☒ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☐ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date *20081209*.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____.
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____.

DETAILED ACTION

1. Claims 11-13, 15, 52-60 and 62 are pending in this application and have been examined in response to application amendment filed on 10/08/2008.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 11-13, 15, 52-60 and 62 are rejected under 35 U.S.C. 102(e) as being unpatentable by Walker (US 6,279,017 B1).

4. As to **INDEPENDENT** claim 11, Walker discloses a data displaying device comprising a storage means with data stored therein, a display means, and a display control means for controlling the display of the data stored in the storage means on the data display means, characterized in that:

a remark display control means (col.3, lines 35-40; "reading system") is provided for visually displaying a visual confirmation guide for distinguishing a specified area of

data being displayed on the display means (col.3, lines 26-35; various "visual signals" are provided to distinguish area of the text display based on the provided "visual attributes"), in that:

the remark display control means moves and displays the visual confirmation guide (col.7, lines 33-43; col.9, lines 11-23; the "Minimum Text segment length" and "advancement rates" indicates the movement of the visual confirmation guide), and in that:

the remark display control means moves the visual confirmation guide at a speed based on a complexity of a character being displayed by the visual confirmation guide (col.10, lines 50-53; "complex special event"; a word that is longer contains more geometric shapes and therefore is more complex than a word that is shorter; A word is in the English language as disclosed by Walker is made up from a single character or a combination of multiple characters such as the English alphabets. Further, a word that is a single character is less complex in comparison with a word that is longer, more difficult, thus requiring longer to pronounce by using highlighting).

5. As to **INDEPENDENT** claim 12, Walker discloses a data displaying device comprising a storage means with data stored therein, a display means, and a display control means for controlling the display of the data stored in the storage means on the data display means, characterized in that:

a remark display control means (col.3, lines 35-40; "reading system") is provided for visually displaying a visual confirmation guide for distinguishing a specified area of

data being displayed on the display means (col.3, lines 26-35; various "visual signals" are provided to distinguish area of the text display based on the provided "visual attributes"), in that:

the remark display control means moves and displays the visual confirmation guide (col.7, lines 33-43; col.9, lines 11-23; the "Minimum Text segment length" and "advancement rates" indicates the movement of the visual confirmation guide), and in that:

the remark display control means moves or deforms the visual confirmation guide at a speed based on a frequency of a character being displayed by the visual confirmation guide (col.39, lines 51-53; A word is in the English language as disclosed by Walker is made up from a single character or a combination of multiple characters such as the English alphabets).

6. As to **INDEPENDENT** claim 13, Walker discloses a data displaying device comprising a storage means with data stored therein, a display means, and a display control means for controlling the display of the data stored in the storage means on the data display means, characterized in that:

a remark display control means (col.3, lines 35-40; "reading system") is provided for visually displaying a visual confirmation guide for distinguishing a specified area of data being displayed on the display means (col.3, lines 26-35; various "visual signals" are provided to distinguish area of the text display based on the provided "visual attributes"), in that:

the remark display control means moves and displays the visual confirmation guide (col.7, lines 33-43; col.9, lines 11-23; the "Minimum Text segment length" and "advancement rates" indicates the movement of the visual confirmation guide), and in that:

the remark display control means moves the visual confirmation guide at a speed based on a combination a complexity of a character being displayed (col.10, lines 50-53; "complex special event"; a word that is longer contains more geometric shapes and therefore is more geometric complex than a word that is shorter; A word is in the English language as disclosed by Walker is made up from a single character or a combination of multiple characters such as the English alphabets. Further, a word that is a single character is less complex in comparison with a word that is longer, more difficult, thus requiring longer to pronounce by using highlighting), with a frequency of a character (col.39, lines 51-53; A word is in the English language as disclosed by Walker is made up from a single character or a combination of multiple characters such as the English alphabets) being displayed by the visual confirmation guide.

7. As to **INDEPENDENT** claim 15, Walker discloses a data storage medium containing a record of a data display program readable by a computer to realize:

a function for displaying a visual confirmation guide using a difference in visibility (col.6, lines 27-39; a list of visual confirmation guide rules is listed),

a function for distinguishing displayed data by the displayed visual confirmation guide visually (col.3, lines 26-35; various "visual signals" are provided to distinguish

area of the text display based on the provided "visual attributes"), and

a function for moving (col.7, lines 33-43; col.9, lines 11-23; the "Minimum Text segment length" and "advancement rates" indicates the movement of the visual confirmation guide) or deforming the visual confirmation guide at a speed based on a character (col.10, lines 50-53; "complex special event"; a word that is longer contains more geometric shapes and therefore is more geometric complex than a word that is shorter; A word is in the English language as disclosed by Walker is made up from a single character or a combination of multiple characters such as the English alphabets. Further, a word that is a single character is less complex in comparison with a word that is longer, more difficult, thus requiring longer to pronounce by using highlighting) of the data being displayed thereby and/or frequency of a complexity of a character being displayed thereby so as to make the data displayed thereby easier to read (col.39, lines 51-53; A word is in the English language as disclosed by Walker is made up from a single character or a combination of multiple characters such as the English alphabets).

8. As to **INDEPENDENT** claim 52, Walker discloses a data displaying device comprising a storage means with data stored therein, a display means, and a display control means for controlling the display of the data stored in the storage means on the data display means, characterized in that:

a remark display control means (col.3, lines 35-40; "reading system") is provided for visually displaying a visual confirmation guide for distinguishing a specified area of data being displayed on the display means (col.3, lines 26-35; various "visual signals"

are provided to distinguish area of the text display based on the provided "visual attributes"), in that:

the remark display control means visually distinguishes the data being displayed with the visual confirmation guide from the data being displayed by said specified area of the display means by deforming the data being displayed by said specified area of the display means (col.9, lines 40-50; "animation") or adding information thereto and thereafter displaying the distinguished data with the visual confirmation guide (col.9, lines 54-63; "tagging" provides added definition to the text)., in that:

the remark display control means moves and displays the visual confirmation guide (col.7, lines 33-43; col.9, lines 11-23; the "Minimum Text segment length" and "advancement rates" indicates the movement of the visual confirmation guide), and in that:

the remark display control means moves (col.7, lines 33-43; col.9, lines 11-23; the "Minimum Text segment length" and "advancement rates" indicates the movement of the visual confirmation guide) or deforms (col. 9, lines 40-50; col.10, lines 47-53; features such as "blinking", "dissolving" and "highlighting" deforms the visual confirmation guide), the visual confirmation guide at a speed based on a complexity of a character being displayed by the visual confirmation guide (col.10, lines 50-53; "complex special event"; a word that is longer contains more geometric shapes and therefore is more complex than a word that is shorter; A word is in the English language as disclosed by Walker is made up from a single character or a combination of multiple characters such as the English alphabets. Further, a word that is a single character is

less complex in comparison with a word that is longer, more difficult, thus requiring longer to pronounce by using highlighting).

9. As to **INDEPENDENT** claim 53, Walker discloses a data displaying device comprising a storage means with data stored therein, a display means, and a display control means for controlling the display of the data stored in the storage means on the data display means, characterized in that:

a remark display control means (col.3, lines 35-40; "reading system") is provided for visually displaying a visual confirmation guide for distinguishing a specified area of data being displayed on the display means (col.3, lines 26-35; various "visual signals" are provided to distinguish area of the text display based on the provided "visual attributes"), in that:

the remark display control means deforms and displays the visual confirmation guide (col. 9, lines 40-50; col.10, lines 47-53; features such as "blinking", "dissolving" and "highlighting" deforms the visual confirmation guide), and in that:

the remark display control means moves the visual confirmation guide at a speed based on a complexity of character being displayed by the visual confirmation guide (col.10, lines 50-53; "complex special event"; a word that is longer contains more geometric shapes and therefore is more complex than a word that is shorter; A word is in the English language as disclosed by Walker is made up from a single character or a combination of multiple characters such as the English alphabets. Further, a word that

is a single character is less complex in comparison with a word that is longer, more difficult, thus requiring longer to pronounce by using highlighting).

10. As to **INDEPENDENT** claim 54, Walker discloses a data displaying device comprising a storage means with data stored therein, a display means, and a display control means for controlling the display of the data stored in the storage means on the data display means, characterized in that:

a remark display control means (col.3, lines 35-40; "reading system") is provided for visually displaying a visual confirmation guide for distinguishing a specified area of data being displayed on the display means (col.3, lines 26-35; various "visual signals" are provided to distinguish area of the text display based on the provided "visual attributes"), in that:

the remark display control means visually distinguishes the data being displayed with the visual confirmation guide from the data being displayed by said specified area of the display means by deforming the data being displayed by said specified area of the display means (col.9, lines 40-50; "animation") or adding information thereto and thereafter displaying the distinguished data with the visual confirmation guide (col.9, lines 54-63; "tagging" provides added definition to the text)., in that:

the remark display control means deforms and displays the visual confirmation guide col. 9, lines 40-50; col.10, lines 47-53; features such as "blinking", "dissolving" and "highlighting" deforms the visual confirmation guide).

the remark display control means deforms (col. 9, lines 40-50; col.10, lines 47-53; features such as "blinking", "dissolving" and "highlighting" deforms the visual confirmation guide), the visual confirmation guide at a speed based on a complexity of a character being displayed by the visual confirmation guide (col.10, lines 50-53; "complex special event"; a word that is longer contains more geometric shapes and therefore is more complex than a word that is shorter; A word is in the English language as disclosed by Walker is made up from a single character or a combination of multiple characters such as the English alphabets. Further, a word that is a single character is less complex in comparison with a word that is longer, more difficult, thus requiring longer to pronounce by using highlighting).

11. As to **INDEPENDENT** claim 55, Walker discloses a data displaying device comprising a storage means with data stored therein, a display means, and a display control means for controlling the display of the data stored in the storage means on the data display means, characterized in that:

a remark display control means (col.3, lines 35-40; "reading system") is provided for visually displaying a visual confirmation guide for distinguishing a specified area of data being displayed on the display means (col.3, lines 26-35; various "visual signals" are provided to distinguish area of the text display based on the provided "visual attributes"), in that:

the remark display control means visually distinguishes the data being displayed with the visual confirmation guide from the data being displayed by said specified area

of the display means by deforming the data being displayed by said specified area of the display means (col.9, lines 40-50; "animation") or adding information thereto and thereafter displaying the distinguished data with the visual confirmation guide (col.9, lines 54-63; "tagging" provides added definition to the text)., in that:

the remark display control means moves and displays the visual confirmation guide (col.7, lines 33-43; col.9, lines 11-23; the "Minimum Text segment length" and "advancement rates" indicates the movement of the visual confirmation guide), and in that:

the remark display control means moves (col.7, lines 33-43; col.9, lines 11-23; the "Minimum Text segment length" and "advancement rates" indicates the movement of the visual confirmation guide) or deforms (col. 9, lines 40-50; col.10, lines 47-53; features such as "blinking", "dissolving" and "highlighting" deforms the visual confirmation guide), the visual confirmation guide at a speed based on frequency of a character or character or frequency of image data being displayed by the visual confirmation guide (col.39, lines 51-53; A word is in the English language as disclosed by Walker is made up from a single character or a combination of multiple characters such as the English alphabets).

12. As to **INDEPENDENT** claim 56, Walker discloses a data displaying device comprising a storage means with data stored therein, a display means, and a display control means for controlling the display of the data stored in the storage means on the data display means, characterized in that:

a remark display control means (col.3, lines 35-40; "reading system") is provided for visually displaying a visual confirmation guide for distinguishing a specified area of data being displayed on the display means (col.3, lines 26-35; various "visual signals" are provided to distinguish area of the text display based on the provided "visual attributes"), in that:

the remark display control means deforms and displays the visual confirmation guide (col. 9, lines 40-50; col.10, lines 47-53; features such as "blinking", "dissolving" and "highlighting" deforms the visual confirmation guide), and in that:

the remark display control means moves (col.7, lines 33-43; col.9, lines 11-23; the "Minimum Text segment length" and "advancement rates" indicates the movement of the visual confirmation guide) or deforms (col. 9, lines 40-50; col.10, lines 47-53; features such as "blinking", "dissolving" and "highlighting" deforms the visual confirmation guide), the visual confirmation guide at a speed based on frequency of a character or character or frequency of image data being displayed by the visual confirmation guide (col.39, lines 51-53; A word is in the English language as disclosed by Walker is made up from a single character or a combination of multiple characters such as the English alphabets).

13. As to **INDEPENDENT** claim 57, see rationale addressed in the rejection of claim 55 above.

14. As to **INDEPENDENT** claim 58, Walker discloses a data displaying device comprising a storage means with data stored therein, a display means, and a display control means for controlling the display of the data stored in the storage means on the data display means, characterized in that:

a remark display control means (col.3, lines 35-40; "reading system") is provided for visually displaying a visual confirmation guide for distinguishing a specified area of data being displayed on the display means (col.3, lines 26-35; various "visual signals" are provided to distinguish area of the text display based on the provided "visual attributes"), in that:

the remark display control means visually distinguishes the data being displayed with the visual confirmation guide from the data being displayed by said specified area of the display means by deforming the data being displayed by said specified area of the display means (col.9, lines 40-50; "animation") or adding information thereto and thereafter displaying the distinguished data with the visual confirmation guide (col.9, lines 54-63; "tagging" provides added definition to the text)., in that:

the remark display control means moves and displays the visual confirmation guide (col.7, lines 33-43; col.9, lines 11-23; the "Minimum Text segment length" and "advancement rates" indicates the movement of the visual confirmation guide), and in that:

the remark display control means moves or deforms (col. 9, lines 40-50; col.10, lines 47-53; features such as "blinking", "dissolving" and "highlighting" deforms the visual confirmation guide) the visual confirmation guide at a speed based on a

combination of a complexity of a character being displayed (col.10, lines 50-53; "complex special event"; a word that is longer contains more geometric shapes and therefore is more geometric complex than a word that is shorter; A word is in the English language as disclosed by Walker is made up from a single character or a combination of multiple characters such as the English alphabets. Further, a word that is a single character is less complex in comparison with a word that is longer, more difficult, thus requiring longer to pronounce by using highlighting), with frequency (col.39, lines 51-53; A word is in the English language as disclosed by Walker is made up from a single character or a combination of multiple characters such as the English alphabets) of a character or character or frequency of image data being displayed by the visual confirmation guide.

15. As to **INDEPENDENT** claim 59, Walker discloses a data displaying device comprising a storage means with data stored therein, a display means, and a display control means for controlling the display of the data stored in the storage means on the data display means, characterized in that:

a remark display control means (col.3, lines 35-40; "reading system") is provided for visually displaying a visual confirmation guide for distinguishing a specified area of data being displayed on the display means (col.3, lines 26-35; various "visual signals" are provided to distinguish area of the text display based on the provided "visual attributes"), in that:

the remark display control means moves and displays the visual confirmation guide (col.7, lines 33-43; col.9, lines 11-23; the "Minimum Text segment length" and "advancement rates" indicates the movement of the visual confirmation guide), and in that:

the remark display control means deforms (col. 9, lines 40-50; col.10, lines 47-53; features such as "blinking", "dissolving" and "highlighting" deforms the visual confirmation guide) the visual confirmation guide at a speed based on a combination of a complexity of a character being displayed (col.10, lines 50-53; "complex special event"; a word that is longer contains more geometric shapes and therefore is more geometric complex than a word that is shorter; A word is in the English language as disclosed by Walker is made up from a single character or a combination of multiple characters such as the English alphabets. Further, a word that is a single character is less complex in comparison with a word that is longer, more difficult, thus requiring longer to pronounce by using highlighting), with frequency of a character (col.39, lines 51-53; A word is in the English language as disclosed by Walker is made up from a single character or a combination of multiple characters such as the English alphabets) being displayed by the visual confirmation guide.

16. As to **INDEPENDENT** claim 60, Walker discloses a data displaying device comprising a storage means with data stored therein, a display means, and a display control means for controlling the display of the data stored in the storage means on the data display means, characterized in that:

a remark display control means (col.3, lines 35-40; "reading system") is provided for visually displaying a visual confirmation guide for distinguishing a specified area of data being displayed on the display means (col.3, lines 26-35; various "visual signals" are provided to distinguish area of the text display based on the provided "visual attributes"), in that:

the remark display control means visually distinguishes the data being displayed with the visual confirmation guide from the data being displayed by said specified area of the display means by deforming the data being displayed by said specified area of the display means (col.9, lines 40-50; "animation") or adding information thereto and thereafter displaying the distinguished data with the visual confirmation guide (col.9, lines 54-63; "tagging" provides added definition to the text)., in that:

the remark display control means moves and displays the visual confirmation guide (col.7, lines 33-43; col.9, lines 11-23; the "Minimum Text segment length" and "advancement rates" indicates the movement of the visual confirmation guide), and in that:

the remark display control means deforms (col. 9, lines 40-50; col.10, lines 47-53; features such as "blinking", "dissolving" and "highlighting" deforms the visual confirmation guide) the visual confirmation guide at a speed based on a combination of a complexity of a character being displayed (col.10, lines 50-53; "complex special event"; a word that is longer contains more geometric shapes and therefore is more geometric complex than a word that is shorter; A word is in the English language as disclosed by Walker is made up from a single character or a combination of multiple

characters such as the English alphabets. Further, a word that is a single character is less complex in comparison with a word that is longer, more difficult, thus requiring longer to pronounce by using highlighting), with frequency of a character or characters or the frequency of image (col.39, lines 51-53; A word is in the English language as disclosed by Walker is made up from a single character or a combination of multiple characters such as the English alphabets) data being displayed by the visual confirmation guide.

17. As to claim 62, Walker discloses the remark display control means displays the visual confirmation guide superimposed on data being displayed on the display means (col.3, lines 30-31; "animation").

Response to Arguments

18. Applicant's arguments filed on 10/08/2008 have been fully considered but they are not persuasive.

19. Applicant argues Walker does not disclose the remark control means may operate based upon the complexity of a character being displayed.

In response to applicant's argument, Walker discloses col.10, lines 50-53; "complex special event"; **a combination of multiple characters such as "sesquipedalian" using the English alphabets makes up a word and an individual character such as**

"I" using the English alphabets also makes up a word. Longer words such as "sesquipedalian" requires longer emphasis and shorter, single character words such as "I" requires shorter emphasis; a single character word is contains less geometric shapes and therefore is less complex than a word that is made out of multiple characters.

20. Applicant argues Walker does not disclose the remark control means may operate based upon the frequency of a character being displayed.

In response to applicant's argument, Walker discloses that a word frequency dictionary is used to weight the difficulty of a word (col.39, lines 50-53), wherein a combination of multiple characters such as the English alphabets makes up words and individual characters such as "I" or "a" in the English alphabets also makes up words.

Conclusion

21. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to HAOSHIAN SHIH whose telephone number is (571)270-1257. The examiner can normally be reached on m-f 0730-1700.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kieu Vu can be reached on (571) 272-4057. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

HSS

/Kieu D Vu/
Primary Examiner, Art Unit 2175